

PTO Form 1449 (List of Prior Art Cited by Applicant)

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.		SERIAL NO. <div style="text-align: right; font-size: 1.2em;">08/ 884,680</div>	
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT <div style="text-align: right; font-size: 1.2em;">ALEKSANDR L. YUFA</div>			
				FILING DATE		GROUP <div style="text-align: right; font-size: 1.2em;">2877</div>	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
—	AA	3 508830	04.28.70	HOPKINS	356/338	250/399.11	—
—	AB	3 614231	10.19.71	SHAW	356/336	250/574	—
—	AC	3 678487	07.18.72	LUDEWIG	356/37	340/307	—
—	AD	3 710279	01.09.73	ASHKIN	250/281	250/251	—
—	AE	3 797937	03.19.74	SHOFNER	356/336	250/564	—
—	AF	3 819940	06.25.74	LAWS	250/227.11	250/578	—
—	AG	3 835315	09.12.74	GRAVITT	250/218	356/343	—
—	AH	3 840304	10.08.74	HIRAFUSHI	356/436	356/246	—
—	AI	3 850525	11.26.74	KAYE	356/73	356/222	—
—	AJ	3 851169	11.04.74	FAXVOG	250/222	250/574	—
—	AK	3 914058	10.21.75	KNAPP	356/427	356/335	—

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION YES NO
—	AL	1 335466	10.21.73	GREAT BRITAIN	356/338	G01N21/49	G1B	—
—	AM	2 042166	09.04.80	GREAT BRITAIN	356/336	G01N15/02	G1A	—

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
	AR	— see page 9 —
		— see page 9 —
	AS	— see page 9 —
		— see page 9 —

EXAMINER <div style="text-align: center; font-size: 1.2em;">Pham, H</div>	DATE CONSIDERED <div style="text-align: center; font-size: 1.2em;">4/7/98</div>
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				FILING DATE		GROUP 2877	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA		3 9 3 2 7 6 2	01.13.76	MOSEK	250/574	250/22728	
AB		3 9 4 1 9 8 2	03.02.76	KNOLLENBERG	377/54	382/323	
AC		3 9 4 6 2 3 9	03.23.76	SALZMAN	356/39	250/461.2	
AD		3 9 8 4 7 8 6	10.05.76	PIKE	356/246	372/54	
AE		3 9 8 5 4 4 1	10.12.76	SCHOEFFEL	356/246	356/310	
AF		3 9 8 9 3 8 1	11.21.76	FULWAYLER	356/39	356/338	
AG		4 0 1 7 1 8 6	04.12.77	SHOFNER	356/342	250/574	
AH		4 0 4 5 1 2 5	08.30.77	FARGAS	359/585	351/44	
AI		4 0 7 0 1 1 3	01.24.78	FRAZER	356/343	250/214	
AJ		4 1 2 4 3 0 2	11.07.78	KUZMIN	356/440	250/573	
AK		4 1 3 2 8 9 4	01.02.79	YULE	250/435	73/28.05	

FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
								YES	NO
AL		2 2 6 1 9 4 9	11.27.91	GREAT BRITAIN		G01N21/75	G1B		
AM		2 2 6 4 5 5 6	02.21.92	GREAT BRITAIN	356/556	G01N15/02	G1A		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
		see page 9 see page 9 see page 10 see page 10
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA	4 1 4 0 3 9 5	02.20.79	KREIKEBAUM	356/336	250/574		
AB	4 1 5 0 3 8 0	04.17.79	KOPP	382/133	250/550		
AC	4 1 7 3 4 1 5	11.06.79	WYATT	356/336	250/584		
AD	4 1 7 8 1 0 3	12.06.79	WALLACE	356/336	356/343		
AE	4 1 8 8 1 2 1	02.27.80	HIRLEMAN	356/336	356/338		
AF	4 1 8 8 5 4 3	02.12.80	BRUSTING	356/336	250/574		
AG	4 1 8 9 2 3 6	02.19.80	HOGG	356/317	250/461.2		
AH	4 2 0 0 8 0 2	04.29.80	SALZMAN	356/343	250/461.2		
AI	4 2 2 4 5 5 1	09.23.80	LIEBEGOTT	313/323	356/237		
AJ	4 2 4 5 9 1 0	01.20.81	KÄLANDER	356/338	250/574		
AK	4 2 7 3 4 4 3	06.16.81	HOGG	356/343	250/574		

FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
							YES	NO
AL	3 3 4 4 1 2 2	06.20.85	GERMANY	356/336	G01N15/02			X
AM	3 5 1 0 3 6 3	09.25.86	GERMANY	356/336	G01N15/02			X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
EXAMINER	AR	see page 10
		see page 10
	AS	see page 10
		see page 10

EXAMINER Pham, H	DATE CONSIDERED 4/7/98
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				FILING DATE GROUP 2877				
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
AA	4 2 7 4 7 4 5	06.23.81	TAKAHASHI	356/427	250/574			
AB	4 2 8 1 9 2 4	08.04.81	AUER	356/73	250/461.2			
AC	4 3 1 1 3 8 7	01.19.82	De MEY	356/410	356/318			
AD	4 3 4 8 1 0 7	09.07.82	LEIF	356/72	356/317			
AE	4 3 8 7 9 9 3	06.14.83	ADRIAN	356/336	356/28			
AF	4 4 2 0 2 5 6	12.13.83	FLADDA	356/336	250/565			
AG	4 4 2 2 7 6 1	12.27.83	FROMMER	356/338	356/246			
AH	4 4 2 9 9 9 5	02.07.84	GOULAS	356/343	356/336			
AI	4 4 7 9 0 5 8	10.23.84	GAST	250/343	250/353			
AJ	4 5 2 3 8 4 1	06.18.85	BRUSTING	356/73	356/343			
AK	4 5 7 1 0 7 9	02.18.86	KNOLLENBERG	356/336	356/339			
FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
							YES	NO
AL	4 2 1 5 9 0 8	11.18.93	GERMANY	356/336	G01N15/02			X
AM	4 2 2 8 3 8 8	03.03.94	GERMANY	356/336	G01N15/02			X
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
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EXAMINER <i>Mummt</i>				DATE CONSIDERED <i>4/7/98</i>				
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				FILING DATE		GROUP 2877	

U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
—	AA	4 5 7 3 7 9 6	03.04.86	MARTIN	356/318	356/343			
—	AB	4 6 0 6 6 3 6	08.19.86	MONIN	356/338	356/318			
—	AC	4 6 8 0 9 7 7	07.21.87	CONERO	356/338	604/253			
—	AD	4 7 2 4 3 1 3	02.09.88	FRENCH	250/214.1	356/343			
—	AE	4 7 2 8 1 9 0	03.01.88	KNOLLENBERG	356/336	250/574			
—	AF	4 7 3 9 1 7 7	04.19.88	BORDEN	250/574	356/338			
—	AG	4 7 4 6 2 1 5	05.24.88	GROSS	356/246	250/576			
—	AH	4 7 8 1 4 5 9	11.01.88	SUZUKI	356/335	356/73			
—	AI	4 7 8 3 5 9 9	11.08.88	BORDEN	250/574	356/341			
—	AJ	4 7 9 2 1 9 9	12.20.88	BORDEN	356/37	356/338			
—	AK	4 7 9 8 4 6 5	01.17.89	KNOLLENBERG	356/336	356/343			

FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
—	AL	4 6 6 6 2 1	12.19.86	JAPAN	356/336	G01N15/02		YES	NO
—	AM	5 3 1 9 3 4	04.09.88	JAPAN		G01N1/24			X

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LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT <u>ALEKSANDR L. YUFA</u>			
				FILING DATE		GROUP <u>2872</u>	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4	804853	02.14.89	BORDEN	250/574	356/338	
AB	4	825094	04.25.89	BORDEN	250/573	356/338	
AC	4	842406	06.27.89	Von BARGEN	359/86	356/338	
AD	4	871249	10.14.89	WATSON	356/73	356/336	
AE	4	887721	12.19.89	MARTIN	209/579	356/72	
AF	4	893928	01.16.90	KADLLENBERG	356/343	356/338	
AG	4	896048	01.29.90	BORDEN	250/574	356/339	
AH	4	942305	07.17.90	SOMMER	250/574	356/343	
AI	4	943159	07.24.90	OETLIKER	356/73	356/338	
AJ	4	984889	01.15.91	SOMMER	356/339	356/336	
AK	5	011286	04.30.91	PETRALLI	356/343	356/338	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION YES NO
AL	5	39429	05.06.89	JAPAN	356/338	G01N21/49		X
AM	2	083052	01.27.71	FRANCE	356/343	G01N21/00		X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
—	AA	5033851	07.23.91	SOMMER	356/358	356/436	
—	AB	5043591	08.27.91	LUNDLOW	250/574	356/343	
—	AC	5055698	10.08.91	BORDEN	250/574	356/339	
—	AD	5084614	01.28.92	BERKNER	250/227.11	356/336	
—	AE	5084629	01.28.92	PETRALLI	250/573	356/343	
—	AF	5085500	02.04.92	BLESENER	356/338	250/574	
—	AG	5121988	08.16.92	BLESENER	356/442	356/335	
—	AH	5127729	07.07.92	OETLIKER	356/338	356/73	
—	AI	5132548	07.21.92	BORDEN	250/574	356/336	
—	AJ	5157678	10.20.92	BORDEN	372/34	372/103	
—	AK	5198369	03.30.93	ITOH	356/38	356/338	

FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
—	AL	2091410	01.14.72	FRANCE	356/336	G01N15/02		YES	NO
—	AM	1807336	04.07.93	RUSSIA	356/336	G01N15/02		YES	NO

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U.S. PATENT DOCUMENTS							
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AA		5 2356 25	08.10.93	STOLTZ	377/10	377/12	
AB		5 2212 64	12.21.93	CHANAYEM	73/28.01	250/492.2	
AC		5 2821 51	01.25.94	KNOLLENBERG	364/335	356/336	
AD		5 4671 88	11.14.95	MIYASHITA	356/336	356/339	
AE		5 4671 89	11.14.95	KREIKEBAUM	356/336	356/343	
AF		5 4712 99	11.28.95	KAYE	356/336	356/338	
AG		5 4951 05	02.27.96	NISHIMURA	250/251	356/39	
AH		5 5151 64	05.07.96	KREIKEBAUM	356/339	356/246	
AI							
AJ							
AK							

FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
								YES	NO
AL		1 8073 38	04.07.93	RUSSIA	356/336	G01N15/02			X
AM		2 0215 89	10.15.94	RUSSIA	356/343	G01N21/00			X

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